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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,063	04/12/2005	Masahiko Yoshida	Q86692	3198
23373 7590 10/05/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			STEPHENS, JUANITA DIONNE	
SUITE 800 WASHINGTO	N, DC 20037	ART UNIT	PAPER NUMBER	
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	•		MAIL DATE	DELIVERY MODE
			10/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
•	10/531,063	MASAHIKO YOSHIDA
Office Action Summary	Examiner	Art Unit
	Juanita D. Stephens	2853
The MAILING DATE of this communicatio eriod for Reply	n appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory in - Failure to reply within the set or extended period for reply will, by - Any reply received by the Office later than three months after the - earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a roon. Deriod will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. eply be timely filed THS from the mailling date of this communication. ANDONED (35 U.S.C. § 133).
tatus		
1) Responsive to communication(s) filed on	Application filed 4/12/2005.	
<u> </u>	This action is non-final.	
3) Since this application is in condition for al	lowance except for formal matt	ers, prosecution as to the merits is
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.
Disposition of Claims	•	
4)⊠ Claim(s) <u>1-18</u> is/are pending in the applic	ation.	
4a) Of the above claim(s) is/are with		
5)⊠ Claim(s) <u>1-17</u> is/are allowed.		
6)⊠ Claim(s) <u>18</u> is/are rejected.		•
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction a	and/or election requirement.	
application Papers		
9)⊠ The specification is objected to by the Exa	aminer	
10)⊠ The drawing(s) filed on <u>12 April 2005</u> is/ar		cted to by the Examiner.
Applicant may not request that any objection t	-	-
Replacement drawing sheet(s) including the c		
11) The oath or declaration is objected to by the	•	• • •
riority under 35 U.S.C. § 119		•
12)⊠ Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. 8	119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:	5 , , , , , , , , , , , , , , , , , , ,	
1.⊠ Certified copies of the priority docu	ments have been received.	
2. Certified copies of the priority docu	•	pplication No
3. Copies of the certified copies of the	priority documents have been	received in this National Stage
application from the International B		
* See the attached detailed Office action for	a list of the certified copies not	received.
	•	
attachment(s)		•
) Notice of References Cited (PTO-892)		Summary (PTO-413)
 P)		s)/Mail Date nformal Patent Application
1) N / Illiottiation disclosure grafementist in Lousings		

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. Acknowledgement is made of the Information Disclosure Statement filed 4/12/2005.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. Claim 18 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claim is directed to a computer system which nonstatutory (MPEP 2106).

Allowable Subject Matter

- 6. Claims 1-17 are allowed.
- 7. The following is an examiner's statement of reasons for allowance:

The prior art does not teach, suggest, or render obvious the combination of a plurality of nozzle groups having a predetermine nozzle pitch, wherein said recording apparatus forms said dots by repeating alternately an ejection operation in which a

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liquid is ejected from said nozzle and a carry operation in which the medium is carried using a predetermined carry amount with respect to said head and wherein a distance between two nozzles that ejects the liquid adjacently and that belong to different ones of said nozzle groups is equal to a sum of an integral multiple of said carry amount and said predetermined nozzle pitch, recited in independent claims 1, 15, 16 and 17. This invention solves the problem of increasing design flexibility when a plurality of nozzle groups are provided in a head.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The prior art of Kanaya (US 6,302,517 B1) at least teaches a printing apparatus (Fig. 1) having a head having a plurality of nozzle groups, each of the nozzle groups having a plurality of nozzles that are arranged with a predetermined nozzle pitch wherein said recording apparatus forms said dots by repeating alternately an ejection operation in which a liquid is ejected from said nozzle and a carry operation, but does not disclose in which the medium is carried using a predetermined carry amount with respect to said head and wherein a distance between two nozzles that ejects the liquid Art Unit: 2853

adjacently and that belong to different ones of said nozzle groups is equal to a sum of an integral multiple of said carry amount and said predetermined nozzle pitch

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juanita D. Stephens whose telephone number is (571) 272-2153. The examiner can normally be reached on Flex (Monday-Thursday 9:00 am -6:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a Art Unit: 2853

USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JUANITA D. STEPHENS

JUANITA D. STEPHENS

Juanita D. Stephens Primary Examiner Art Unit 2853

September 30, 2007